RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE: February 2000

BUDGET ACTIVITY: 03 - Advanced Technology Development

PE NUMBER AND TITLE: 0603789F C3I Advanced Development

	COST ($ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
	Total Program Element (PE) Cost	12,286	17,193	19,468	20,059	18,945	18,840	20,488	Continuing	TBD
632335	Advanced C3 Technology	3,762	4,044	0	0	0	0	0	Continuing	TBD
634072	Correlation and Fusion	6,340	10,720	9,940	7,530	4,590	4,613	5,284	Continuing	TBD
634216	Warfighter Information Usage, Management, and Integration Technologies	2,184	2,429	4,191	7,014	6,955	6,554	6,602	Continuing	TBD
634872	Dynamic Aerospace C2 & Execution	0	0	5,337	5,515	7,400	7,673	8,602	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0

Note: In FY 2001, the efforts in Project 632335, Advanced C3 Technology, will be incorporated into Project 634216, Warfighter Information Usage, Management, and Integration Technologies. Prior to FY 2001, the efforts in Project 634872, Dynamic Aerospace C2 and Execution, were accomplished in PE 0603728F.

(U) A. Mission Description

This program develops and demonstrates Aerospace Command, Control, Communications, and Intelligence (C3I) technologies to the warfighter. The technologies address the ability to support the global information exchange of correlated and fused information to ensure the Air Force can plan and execute missions in a dynamic environment. Information Correlation and Fusion Technology will provide affordable operational data capabilities for all pertinent personnel to understand militarily relevant situations, on a consistent basis, with the precision and timeliness needed to accomplish the mission. These capabilities will allow identification of hostile actions/targets or other items of high interest at long-ranges by C3I platforms. Warfighter Information Usage, Management, and Integration technologies will develop reliable, secure, jam-resistant, inter-operable, multimedia, worldwide global information exchange capabilities because the Air Force requires assured communications and reach-back between ground and aerospace battle management resources. Dynamic Aerospace Command, Control, and Execution provides the technology and demonstrations needed to allow the warfighter to plan, assess, execute, monitor, and re-plan on the compressed time scales required for tomorrow's conflicts, whether they be combat or peacekeeping missions. It will provide the global awareness under any condition to plan and respond to an opponent's operations while retaining critical capabilities of Coalition/Joint forces. The resultant products of this program will be technologies needed to build the capability to dynamically plan and replan over a secure network. Note: This PE title and mission description have been changed to reflect realignment of the information technology research and development to achieve the goal of Information Dominance expressed in 'Joint Vision 2010' and the Air Force long-range strategic plan, 'Global Engagement.'

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(U) B. Budget Activity Justification

This program is in Budget Activity 3, Advanced Technology Development, since it develops and demonstrates technologies for existing system upgrades and/or new system developments that have military utility and address warfighter needs.

(U) C. Program Change Summary ($ in Thousands)

		FY 1999	FY 2000	FY 2001	Total Cost
(U)	Previous President's Budget (FY 2000 PBR)	13,179	17,402	14,985	
(U)	Appropriated Value	13,235	17,402		
(U)	Adjustments to Appropriated Value				
	a. Congressional/General Reductions	-56			
	b. Small Business Innovative Research	-373			
	c. Omnibus or Other Above Threshold Reprogram		-94		
	d. Below Threshold Reprogram	-452			
	e. Rescissions	-68	-115		
	f. Other				TBD
(U)	Adjustments to Budget Years Since FY 2000 PBR			4,483	
(U)	Current Budget Submit/FY 2001 PBR	12,286	17,193	19,468	TBD

(U) Significant Program Changes:

In FY 2001, funds were added to increase emphasis on dynamic command, control, and execution efforts.

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)

DATE: February 2000

BUDGET ACTIVITY: 03 - Advanced Technology Development

PE NUMBER AND TITLE: 0603789F C3I Advanced Development

PROJECT: 632335

COST ($ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
632335 Advanced C3 Technology	3,762	4,044	0	0	0	0	0	Continuing	TBD

(U) A. Mission Description

This project develops Command, Control, and Communications (C3) technology for contingency and joint operations focusing on the concepts of force deployment, sustainment, and employment. Dynamic, hostile battlefield environments demand near instantaneous transmission and processing of vast amounts of C3 information for real-time decision making. This project develops and integrates technologies for: low probability of intercept/anti-jam transmission; modular, programmable, multi-level secure communications; secure survivable networks; advanced displays and interfaces; and battle management decision support capabilities for survivable, distributed Command and Control (C2) facilities with smaller forward deployed footprints. Multiband/multimode programmable radios will be enhanced to address the transmission link requirements of Joint combat theater communications.

(U) FY 1999 ($ in Thousands)

(U) $1,656 Developed and demonstrated programmable devices and monolithic microwave integrated circuit technology in survivable radios and transceivers for critical ground and aerospace communications.

(U) $1,376 Demonstrated advanced networking technologies to provide efficient, secure, interoperable, and deployable communications systems, including dynamic, integrated, self-healing networking.

(U) $730 Demonstrated theater battle management and time-critical air operations technologies to provide field commanders essential operational decision support and rapid response capabilities. Completed the brassboard Joint Defensive Planner (JDP) capability.

(U) $3,762 Total

(U) FY 2000 ($ in Thousands)

(U) $1,466 Develop and demonstrate improved communications technologies that provide reliable, efficient, secure, interoperable, and dynamic deployable communications for Air Combat Command, thus improving mission effectiveness through optimized resource management. Develop and demonstrate a user-friendly radio communications capability that can automatically sense and adapt to its environment and demand for service.

(U) $1,978 Demonstrate integrated and distributed networking and information system technologies to provide efficient, secure, interoperable, and deployable information systems. Develop and demonstrate a multi-level secure information system manager.

(U) $600 Demonstrate theater battle management and time-critical air operations technologies to provide field commanders essential operational decision support and rapid response capabilities. Complete JDP demonstration. Complete initial replanning tool for Tactical Air Control Parties. Demonstrate initial decision aid capability to determine weather impacts on force and mission planning.

(U) $4,044 Total

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BUDGET ACTIVITY 03 - Advanced Technology Development	PE NUMBER AND TITLE 0603789F C3I Advanced Development	PROJECT 632335

(U) A. Mission Description Continued

(U) FY 2001 ($ in Thousands)

(U)	$0	Effort moved to Project 634216.
(U)	$0	Total

(U) B. Project Change Summary

Not Applicable.

(U) C. Other Program Funding Summary ($ in Thousands)

(U) Related Activities:
(U) PE 0603617F, C3 Applications.
(U) PE 0603737D, Advanced Research Projects Agency.
(U) PE 0603006A, C3 Technology.
(U) PE 0602702F, Command, Control, and Communications (C3).
(U) PE 0602232N, C3 Technology.
(U) PE 0603726F, Aerospace Information Technology Systems Integration.
(U) This project has been coordinated through the Reliance process to harmonize efforts and eliminate duplication.

(U) D. Acquisition Strategy

Not Applicable.

(U) E. Schedule Profile

(U) Not Applicable.

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)

DATE: February 2000

BUDGET ACTIVITY: 03 - Advanced Technology Development

PE NUMBER AND TITLE: 0603789F C3I Advanced Development

PROJECT: 634072

COST ($ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
634072 Correlation and Fusion	6,340	10,720	9,940	7,530	4,590	4,613	5,284	Continuing	TBD

(U) A. Mission Description

In order to ensure maximum target engagement ranges and a first-shot, first-kill capability, the Air Force must be able to detect, positively identify, and track hostile targets. This project develops and demonstrates sensor processing techniques, track and fusion algorithms, and correlation techniques in order to enhance target detection and tracking ranges. This project develops and integrates the necessary suite of complementary passive and active hostile target identification technologies for command and control platforms. These technologies will enhance the performance of identification and threat assessment systems for improved acquisition, tracking, and target engagement ranges for theater operations.

(U) FY 1999 ($ in Thousands)

(U) $2,725 Developed and evaluated acoustic analysis algorithms, radar identification technologies, and intelligent technologies for assured detection, tracking, and identification of hostile airborne targets using multiple off-board sensors.

(U) $1,011 Continued to develop a bistatic airborne testbed and refined concepts that increased the survivability of fielded systems by quietly detecting and tracking combat threats.

(U) $2,604 Continued design of real-time airborne demonstration of all-source advanced correlation capability for time-critical targets and developed teraflop signal processor technology.

(U) $6,340 Total

(U) FY 2000 ($ in Thousands)

(U) $3,411 Develop, demonstrate, and transition passive exploitation systems to provide target identification for battlespace infosphere situational awareness. Develop and demonstrate technologies for over-the-horizon situation awareness through passive exploitation of signals emanating from weapon systems. Develop an integrated approach for positive target identification utilizing advanced resource management and cueing techniques.

(U) $3,329 Develop and demonstrate an all-source advanced capability for the detection and tracking of time-critical targets. Develop fusion systems and architectures capable of exploiting multiple sources to find, fix, track, and identify moving air and ground targets. Develop fusion algorithms and tools to exploit fused sensor information to provide higher levels of intelligence such as enemy force structures, lines of communication, and possible courses of action. Continue development of affordable teraflop signal processor technology. Demonstrate a 2x improvement in high performance computing software affordability. Demonstrate a 2x reduction in communication requirements through on-board data reduction.

(U) $3,980 Develop advanced fusion technology to evaluate the capability of Unmanned Combat Aerial Vehicles (UCAV) to operate in a Command,

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BUDGET ACTIVITY 03 - Advanced Technology Development	PE NUMBER AND TITLE 0603789F C3I Advanced Development	PROJECT 634072

(U) A. Mission Description Continued

(U) FY 2000 ($ in Thousands) Continued

Control, Communications, Computer, Intelligence, Surveillance, and Reconnaissance (C4ISR) data-rich environment as part of an integrated command, control and communications (C3) network. Develop system simulations for the Mission Control Station to demonstrate that it can achieve and sustain assured, on-demand access and connectivity of sufficient bandwidth within acceptable latencies as a critical node on the Unmanned Combat Aerial Vehicles (UCAV) C3 network. Demonstrate technology to guarantee secure and robust communication capability of the UCAV system.

(U) $10,720 Total

(U) FY 2001 ($ in Thousands)

(U) $1,504 Develop passive exploitation algorithms to enhance the identification of time-critical targets. Exploit information in acoustic, image, and signal intelligence to identify targets for situational awareness and targeting. Develop the technologies to use multiple source correlation of sensor reports to perform target identification and optimize allocation of sensor resources.

(U) $1,825 Develop and demonstrate an all-source advanced capability for the detection and tracking of time-critical targets. Develop fusion systems and architectures capable of exploiting multiple sources to find, fix, identify, and track moving air and ground targets, and to detect and track targets employing camouflage, concealment, and deception (CCD) techniques. Continue to develop fusion algorithms and tools to exploit fused sensor information to provide higher levels of intelligence such as enemy force structures, lines of communication, and possible courses of action.

(U) $1,108 Develop and demonstrate embedded high performance processors for real-time knowledge and information-based processing to achieve exploitation and rapid fielding of an affordable fusion capability for all-source intelligence surveillance and reconnaissance data. Demonstrate a 4x affordability in embedded high performance processing through a reduction in size, weight, and power, thereby reducing the system footprint and cost of deployed systems. Demonstrate a 2x improvement in high performance computing software affordability through the continued maturation of software standards, such as Vector Signal Image Processing Library (VSIPL) and Message Processing Interface (MPI), which serve to protect the software investment over hardware generations.

(U) $3,237 Continue to develop advanced fusion technology to evaluate the capability of UCAV to operate in a Command, Control, Communications, Computer, Intelligence, Surveillance, and Reconnaissance (C4ISR) data-rich environment as part of an integrated C3 network. Develop and demonstrate command and control (C2) technologies for the dynamic command and control of multiple vehicles under a highly dynamic mission environment. Develop and demonstrate, through simulation, the software elements for both the air vehicle and Mission Control Station required for the dynamic command and control of multiple vehicles.

(U) $2,266 Develop and demonstrate technologies to support the affordable UCAV air vehicle unit recurring flyaway (URF) goal in a C4ISR data-rich environment as part of an integrated C3 network. Initiate the integration of the C2 software elements into the Mission Control Station and UCAV air vehicle. State-of-the-art tools will be used to maximize the reuse of software components.

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BUDGET ACTIVITY 03 - Advanced Technology Development	PE NUMBER AND TITLE 0603789F C3I Advanced Development	PROJECT 634072

(U) A. Mission Description Continued

(U) FY 2001 ($ in Thousands) Continued
(U) $9,940 Total

(U) B. Project Change Summary

Not Applicable.

(U) C. Other Program Funding Summary ($ in Thousands)

(U) Related Activities:
(U) PE 0603203F, Advanced Aerospace Sensors.
(U) PE 0602702F, Command, Control, and Communications (C3).
(U) PE 0603742F, Combat Identification Technology.
(U) PE 0603726F, Aerospace Information Technology Systems Integration.
(U) This project has been coordinated through the Reliance process to harmonize efforts and eliminate duplication.

(U) D. Acquisition Strategy

Not Applicable.

(U) E. Schedule Profile

(U) Not Applicable.

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)

DATE: February 2000

BUDGET ACTIVITY: 03 - Advanced Technology Development

PE NUMBER AND TITLE: 0603789F C3I Advanced Development

PROJECT: 634216

COST ($ in Thousands)		FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
634216	Warfighter Information Usage, Management, and Integration Technologies	2,184	2,429	4,191	7,014	6,955	6,554	6,602	Continuing	TBD

(U) A. Mission Description

This project will develop and demonstrate the advanced technologies required to implement an interoperable, worldwide Information For The Warrior (IFTW) construct capable of supporting near-real-time multimedia (i.e., voice, data, video, and imagery) information exchange between ground and airborne platforms. The IFTW technology will provide 'reachback' (i.e., updating information and mission changes to enroute aircraft) and 'in-transit visibility' of the aircraft and cargo status at Command and Control centers. The IFTW capabilities will be enhanced through the incremental development, demonstration, and integration of advanced information management, network management, and communications transmission technologies. It will address interoperation across echelon, Service, and multi-national force boundaries, as well as provide support for mobile command and control, and sensor-to-shooter operations. This program directly responds to user deficiencies as expressed by the Joint Staff (Command, Control, Communications, Computers, and Intelligence for the Warrior), the Air Force (Theater Deployable Communications), Air Mobility Command (Air Mobility Master Plan and Airborne Situational Awareness), and the Defense Information Systems Agency (Far-Term Defense Information Systems Network).

(U) FY 1999 ($ in Thousands)

(U) $682 Designed, developed, demonstrated, and integrated advanced information communication mediation management technologies for IFTW joint task force and international operations.

(U) $750 Designed, developed, demonstrated, and integrated advanced airborne, super-high frequency communications and low-cost, phased array antenna technologies.

(U) $752 Designed, developed, demonstrated, and integrated advanced network and bandwidth management and technologies, including agents and routers, for IFTW in joint and international environments.

(U) $2,184 Total

(U) FY 2000 ($ in Thousands)

(U) $820 Design, develop, integrate, and demonstrate advanced expert system decision algorithms to prioritize and control resources for global reach in a mobility environment. Design and develop intelligent agent and information structure management techniques. Develop an Intelligent Information Manager agent to throttle and regulate mission information flow among Air Mobility Command (AMC) components based on changing system capabilities.

(U) $855 Design, develop, integrate, and demonstrate modular, reprogrammable radio communications technologies for commercial and military global

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(U) A. Mission Description Continued

(U) FY 2000 ($ in Thousands) Continued

reach in an airborne mobility environment. Continue to develop and demonstrate user-friendly, assured multiband and wideband wireless intelligent networking capability that automatically senses and adapts to its environment and demand for service. Develop the Media Access Controller for integrating all near-term legacy Air Mobility Command (AMC) radios, medium-term multi-band radios, and available commercial system components into a synergistic information transport mechanism

(U) $754 Design, develop, integrate, and demonstrate advanced protocol network and commercial management technologies to validate communications between air platforms and Command and Control centers at Scott Air Force Base for global reach in a mobility environment. Develop the Intelligent Communications Controller network management technology to provide seamless connectivity and assured delivery through all the networks connected to provide reachback and in transit visibility for AMC.

(U) $2,429 Total

(U) FY 2001 ($ in Thousands)

(U) $880 Design, develop, integrate, and demonstrate advanced expert system decision algorithms to prioritize and control resources for global reach in a mobility environment. Continue to develop an intelligent information manager agent to throttle and regulate mission information flow among AMC components based on changing system capabilities. Demonstrate to AMC the capabilities to perform heterogeneous data base access and mission/user profiles under a web-based architecture.

(U) $460 Design, develop, integrate, and demonstrate modular, reprogrammable radio communications technologies for commercial and military global reach in an airborne mobility environment. Continue to develop the Media Access Controller for integrating all near-term legacy AMC radios, medium-term multi-band radios, and available commercial system components into a synergistic information transport mechanism.

(U) $688 Design, develop, integrate, and demonstrate advanced protocol network and commercial management technologies to provide communications from deployed aircraft and ground elements to the AMC Tanker Airlift Control Center (TACC), as well as, in-transit visibility at the TACC of all aircraft, personnel, and cargo. Continue to develop technology to dynamically reconfigure the network and communications systems to optimally match the requirements for information transfer with changing transmission path availability. Demonstrate the capability to perform adaptive routing, quality-of-service based architecture, and smart bandwidth management.

(U) $826 Develop and demonstrate improved communications technologies that provide reliable, efficient, secure, interoperable, and dynamic deployable communications to Air Combat Command, thus improving mission effectiveness through optimized resource management. Develop and demonstrate an Intelligent Adaptive Communications Controller (IACC) system to efficiently and effectively control the use of diverse communications media to provide increased aggregate bandwidth. Develop and integrate applications to provide mechanisms that intelligently and dynamically negotiate quality of service and bandwidth management techniques between applications and network transport services. Develop and integrate management mechanisms to provide dynamic, intelligent, management, and control of information system resources.

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BUDGET ACTIVITY 03 - Advanced Technology Development	PE NUMBER AND TITLE 0603789F C3I Advanced Development	PROJECT 634216

(U) A. Mission Description Continued

(U) FY 2001 ($ in Thousands) Continued

(U)	$506	Develop and demonstrate intelligent networking technology to provide assured, seamless, battlespace connectivity to the aerospace forces with a greatly reduced footprint. Continue to develop a capability to support a multilevel secure information system manager. Develop and demonstrate user-friendly, assured multiband and wideband wireless intelligent networking capability that automatically senses and adapts to its environment and service demands, as well as detects, protects, and reacts against intrusion and disruption of service.
(U)	$831	Develop and demonstrate theater battle management and time-critical air operations technologies to provide field commanders essential operational decision support and rapid response capabilities. Complete weather impact decision aid capability and develop space weather impact decision aid capability. Develop master caution panel capability to centrally monitor and manage command and control assets.
(U)	$4,191	Total

(U) B. Project Change Summary

Not Applicable.

(U) C. Other Program Funding Summary ($ in Thousands)

(U) Related Activities:

(U) PE 0602702F, Command, Control, and Communications (C3).

(U) PE 0603726F,Aerospace Information Technology Systems Integration.

(U) This project has been coordinated through the Reliance process to harmonize efforts and eliminate duplication.

(U) D. Acquisition Strategy

Not Applicable.

(U) E. Schedule Profile

(U) Not Applicable.

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)

DATE: February 2000

BUDGET ACTIVITY: 03 - Advanced Technology Development

PE NUMBER AND TITLE: 0603789F C3I Advanced Development

PROJECT: 634872

COST ($ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
634872 Dynamic Aerospace C2 & Execution	0	0	5,337	5,515	7,400	7,673	8,602	Continuing	TBD

(U) A. Mission Description

In order to perform command, control, and execution for the Expeditionary Aerospace Force (EAF), the Air Force must be able to plan, assess, monitor, and replan missions rapidly in a dynamic environment. This project develops and demonstrates technologies necessary for dynamic command and control decision making. It provides the technology and demonstrations needed to enable the warfighter to plan, assess, execute, monitor, and replan on the compressed time scales required for tomorrow's conflicts, whether they be combat or operations other than war. Dynamic effects-based operations will develop and demonstrate a new generation of planning assessment technologies that enable the aerospace commanders to determine the desired operational effects and prosecute the mission accordingly. It will develop innovative capabilities capable of realizing a strategy to task approach to aerospace warfare exploiting a link between command, strategy, and assessment functions. Knowledge-based intelligent information technologies will be developed to support robust, real-time, large-scale Air Force command and control (C2) systems. This project will develop and demonstrate distributed command and control technologies that provide the commander and staff with seamless access to tailored multi-media, multi-spectral data within a mobile, dynamic command and control center.

(U) FY 1999 ($ in Thousands)

(U) $0 Previously accomplished in PE 0603728F.

(U) $0 Total

(U) FY 2000 ($ in Thousands)

(U) $0 Previously accomplished in PE 0603728F.

(U) $0 Total

(U) FY 2001 ($ in Thousands)

(U) $1,485 Develop and demonstrate an effects-based approach for the next generation of planning and assessment techniques that enable aerospace commanders to determine the desired operational effects at the right place at the right time. Develop the effects based operations capability through active template technologies to provide recommended priorities, resource availability, and provide the information to the battle managers in time to achieve mission objectives. Develop and demonstrate model abstraction to replicate/replay military exercises, provide near-real-time dynamic situation assessment, and identify preferred courses of action for decision making, while predicting likely outcomes.

(U) $1,706 Develop and demonstrate distributed C2 technologies that are scalable and reconfigurable and provide seamless access to tailored multi-media, multi-spectral data for commanders and staff within mobile, dynamic command and control centers. Develop technology that integrates offensive, defensive, and support elements into an aerospace command center that provides the EAF a cohesive environment for planning,

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BUDGET ACTIVITY 03 - Advanced Technology Development	PE NUMBER AND TITLE 0603789F C3I Advanced Development	PROJECT 634872

(U) A. Mission Description Continued

(U) FY 2001 ($ in Thousands) Continued

execution, and assessment. Develop and integrate multi-user collaborative interaction technology for adaptive visualization and presentation to enhance joint force battle plan simulation, assessment, and implementation focused on aerospace operations.

(U) $2,146 Develop and demonstrate knowledge-based intelligent information tools to support robust, real-time, large-scale aerospace command and control (C2) systems. Demonstrate knowledge-based C2 technologies in support of continuous planning and scheduling. Develop and integrate planning and information-based intelligent agents for adaptive replanning. Develop and demonstrate the capability to enhance decisions by providing commanders and decision makers a totally integrated perspective of available forces and employment options, including both operational and supporting element capabilities and limitations within an info-centric environment such as the Air Mobility Command Mobility 2000 Initiative.

(U) $5,337 Total

(U) B. Project Change Summary

Not Applicable.

(U) C. Other Program Funding Summary ($ in Thousands)

(U) Related Activities:

(U) PE 0602702F, Command, Control,and Communications (C3).

(U) PE 0603726F, Aerospace Information Technology Systems Integration.

(U) This project has been coordinated through the Reliance process to harmonize efforts and eliminate duplication.

(U) D. Acquisition Strategy

Not Applicable.

(U) E. Schedule Profile

(U) Not Applicable.